## NORMALIZATION OF DEFECTIVE T CELL RESPONSIVENESS THROUGH MANIPULATION OF THYMIC REGENERATION

## **ABSTRACT**

The present disclosure provides methods for the treatment and potential alleviation of autoimmune diseases and allergies in a patient. This is accomplished by deleting at least most of the existing T cell population and reactivating the thymus. Optionally, hematopoietic stem cells, autologous, syngeneic, allogeneic or xenogeneic, are delivered to increase the speed of regeneration of the patient's immune system and to supply normal T cells to the patient or to replace existing aberrant T cells. In some embodiments, the hematopoietic stem cells are CD34+. The patient's thymus is reactivated by disruption of sex steroid mediated signaling to the thymus. In some embodiments, this disruption is created by administration of LHRH agonists, LHRH antagonists, anti-LHRH receptor antibodies, anti-LHRH vaccines or combinations thereof.

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